Garrett Beatty

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EXPERIENCE

Amazon Web Services
Software Engineer 2

New York, NY
August 2022 – Present

AWS SDK for .NET — *August 2024 – Present*

- Designed and implemented S3 multipart download functionality in the AWS SDK for .NET, increasing throughput by 6000% (0.8 Gbps to 50 Gbps) for large-object downloads.
- Delivered the top most customer-requested feature by adding presigned POST URL support to the AWS SDK for .NET, enabling secure, form-based uploads with parity across SDKs.
- Standardized code review and merge workflows across team repositories by enforcing branch protection, two-reviewer approvals, GitHub Copilot AI reviews, security scans, and CI checks.
- Automated change management for DevEx GitHub pipelines, replacing a multi-day manual process with a self-updating system that reduced change rollout time from 3 days to minutes.

Data Center Automation — *August 2022 – August 2024*

- Led the migration of a legacy web platform used by AWS data center technicians to a scalable Java/React system, improving reliability and developer velocity.
- Coordinated backend and frontend development, mentored 4 junior engineers, resolved cross-team blockers, and delivered core workflow features.
- Implemented distributed tracing and synthetic monitoring across the application stack using AWS X-Ray and OpenTelemetry, significantly enhancing observability, reliability, and incident resolution.
- Automated regression testing with Cypress, reducing test runtime from 2 hours to 10 minutes, and enabled continuous deployment across multiple pipelines.

Microsoft
Software Engineer

Seattle, WA
June 2021 – August 2022

- Implemented Managed Identity for Azure SQL Database "External REST Endpoints Integration," enabling customers to conveniently secure and manage their workflows.
- Developed "Bring Your Own Runtime" on SQL Server 2022 Machine Learning Services for Linux, enabling users to configure custom R and Python runtimes.

Comcast
Software Engineer 2

Philadelphia, PA
June 2019 – June 2021

- Developed microservices that support 30,000 Comcast technicians, using Java, Spring Boot, MongoDB and MySQL.
- Improved the team's continuous integration process by reducing deployment time from 6 hours to 30 minutes.
- Built a prototype CI pipeline for iOS testing and release using Concourse, Appium, and Selenium Grid.

TECHNICAL SKILLS

Java, C#, Python, TypeScript, C++, SQL, React, Spring Boot, AWS, Azure, RDS, DynamoDB, MongoDB, Docker, Linux, Git, GitHub, Jenkins, GoCD, Artifactory, Cloud Foundry, Continuous Integration, Continuous Deployment, Vault, OpenTelemetry, Grafana, Elasticsearch, Logstash, Kibana

EDUCATION

The College of New Jersey
Bachelor of Science, Computer Science

Ewing, NJ
August 2015 – May 2019